(51)

BRUHATH BANGALORE MAHANAGARA PALIKE,
Yelahanka Zone (Electrical Division), Bangalore.

Administrative Approval No: CE(SWM)/AS/15/2011-12
Technical Sanction No: BBMP/EE(Ele)/YZ/TS/06/2013-14
Name of the Contractor: M/Spower Tech Electricals

Modified Estimate for Providing aerial bunch cable and additional street lighting fitting for arranging load to the bio gas power plant generation plant situated at Kuvempunagara ward no-11

SL. No	Description	Unit	As per Modified Estimate		
			Quantity	Rate	Amount
1	2	3	7	8	9
1	Fabricating supplying and and mounting MS box made out …… SWG suitable for floor/ wall mounting , fully weather proof with provision for better heat dissipation, provided with hinged fron cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., compleate , b) 16SWG,	Sqcm	72000	0.33	23760.00
2	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and washers etc.,Group 'A' PWD SR 2007-08	Each	8	4200.00	33600.00
3	Supplying and fixing of 4 pole power contactor with NO/ NC contacts on existing wood/panel board using necessary bolts,nuts,washers and wiring etc,complete.with AC-3 rating as per IS-13947,c) 60-70 Amps ,	Each	8	3865.00	30920.00
4	Supplying and fixing Miniature circuit breakers over the existing MCB distribution boards using necessary fixing materials and 'C' type curve,indicator On/OFF Energy cross -3 with short circuit breaking capacity of 10K and complete wiring as required. Make: ABB, Seimens, Legrand, L&T, MG f) 40-63 Amps TPN 1) Group 'A'	Each	8	1495.00	11960.00
5	Supplying and fixing of porcelain fuse channel with cut out on existing wooden/panel using necessary nuts bolts and washer etc, complete c) 63 Amps	Each	12	219.00	2628.00
6	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc d. 35 Sqmm	Each	4	313.00	1252.00
7	Supplying and fixing angle iron frame work fabricated out of M.S angle iron… and M.S. flat… with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. . (32.9a) a) 40x40x6mm	Rmtr	16	240.00	3840.00
8	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanized, steel wire/steel tap armoured cable with PVC outer sheathing 1.1KV Class I. Class 'A' PVC Cable				
	e) 3.5 core 25sqmm	Per Mtr	75	215.00	16125.00
9	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stoneware pipe/ on wall/ on pole as required. I. In existing trench /duct.				
	b) 25 sqmm to 75 sqmm	Rmtr	75	11.00	825.00
10	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. (As per Civil SR KSRB 1-2, P-7)b. In hard Soil	Rmtr	50	50.00	2500.00
11	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multistrand Copper conductor single core cable in open or consealed system of wiring.I Group A .c) 2.5 sqmm	Per Mtr	500	25.00	12500.00

12	Supplying and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and shall be mounted on Octogonal pole using necessary bolts, nuts, etc., complete. a) Single Arm Bracket with 1000mm Standard	Each	60	1650.00	99000.00
13	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25 mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class . a. 40 mm	Rmtr	20	240.00	4800.00
14	Supplying and fixing/replacement of ignitor suitable for 70 to 400 watts SV/MH fittings a) Group A	Nos	60	520.00	31200.00
15	Supply and fixing of 230 volts Porcelain holder for MV/SV/MH lamp b) 250-400 Watts lamp Holder	Nos	60	78.00	4680.00
16	Supplying and fixing HPSV lamps on existing fitting mounted on tubular pole c) 250 Watts	Nos	60	809.00	48540.00
17	Supply and fixing of 250 Watts heavy duty open construction ferromagnetic copper ballast for HPSV/HPMH lamps c) 250 Watts 2. Group B	Nos	60	993.00	59580.00
	BESCOM S.R Rates				
18	LT 3 phase 5 wire Aerial Bunched Cable of size 3X25+1X16+1X25+1X35 sqmm (Standard Stock materials 2009-10) Rs 81450/ Kmt	P/Mtr	1750	81.45	142537.50
19	Striniging of 1.1 KV grade aerial bunched 3 core cable of XLPE insulation standard aluminium conductor standard around a weather resistant black XLPE insulated AAA messanger wire (3X 50 Sq mm + 1X 16 sqmm + 1X 50 Sqmm + 1X 35 sqmm) 2.(3 X95) (for phase Conductor)+ (1X 50)(insulated messanger neutral)+(1X16)(Labour charges 2010-11) Rs 8961/Kmt	P/Mtr	1750	8.96	15681.75
20	Piercing connector suitable 16 Sqmm - 95 Sqmm AB cable service connections (Standard Stock materials 2010-11)	Nos	120	210.00	25200.00
21	Dead End Clamp/ Anchor clamps assembly 25 to 95 sqmm bear messanger (Standard Stock materials 2010-11)	Nos	6	140.00	840.00
22	suspension clamp assemblly 25 to 95 sqmm bear messanger (Standard Stock materials 2010-11)	Nos	60	280.00	16800.00
23	Errection of suspension clamp 25 to 95 sqmm bear messanger (Labour charges 2010-11)	Nos	60	85.00	5100.00
24	Errection of Anchor clamp 25 to 95 sqmm bear messanger (Labour charges 2010-11)	Nos	6	85.00	510.00
25	Istallation of insulation piercing connector for main to street light Main: 16 -95 sqmm,Tap: 1.5-10 sqmm (EP 95)	Nos	120	40.00	4800.00
26	LT 1 phase 3 wire Aerial Bunched Cable of size 1X25+1X16+1X25 sqmm	P/Mtr	0	40.10	0.00
27	Striniging of 1.1 KV grade aerial bunched 3 core cable of XLPE insulation standard aluminium conductor standard around a weather resistant black XLPE insulated AAA messanger wire (1X 25 Sq mm + 1X 16 sqmm + 1X 25Sqmm + 1X 35 sqmm)	P/Mtr	0	8.96	0.00
28	Universal Hook & Bolts and Nuts	Nos	60	280.00	16800.00
29	Fixing of Universal hook	Nos	60	85.00	5100.00
30	Casting of suitable foundation for the Octagonal Pole including designing and cost of all materials like Anchor plates,Template and washers labour charges, all other incidental charges etc,. complete as per specification and Drawing given in KPWD elect SR 2010-11(P.No 103) Detailed Calculation as per CIVIL SR items Enclosed.	Each	60	4929.74	295784.40
31	Hire Charges Components for Tractor 50 HP ,Sl no 20, Page No XXXIV, KPWD SR CIVIL 2010-11	Day	6	2240.00	13440.00
32	Hire Charges Components for Crane Charges ,Sl no 66, Page No XXXVI, KPWD SR CIVIL 2010-12	Day	6	3200.00	19200.00
33	Supplying and Fixing 4 Nos of 590 mm length High Yield Tensile Cold Rolled Pitched threads (680 N/sq mm) 27 mm Bolt dia (Mkt Rate)	Nos	60	1350.00	81000.00
	Total-1				**1030503.65**

	EIRL (PART-B)				
1	Laying of UG cables by Trenchless technology by adopting Horizontal boring and Drawing of Cable including preparation at site With HDPE Pipe iii) Normal Soil 6" Bore size BESCOM SR 2010-11 Labour Charges Sl No 294 Item No 27.1.2.3	Rmtr	25	730.00	18250.00
2	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanized, steel wire/steel tap armoured cable with PVC outer sheathing 1.1KV Class I. Class 'A' PVC Cable				
	e) 4 core16sqmm	Per Mtr	225	215.00	48375.00
3	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stoneware pipe/ on wall/ on pole as required. I. In existing trench /duct.				
	b) 6 sqmm to 75 sqmm	Rmtr	225	11.00	2475.00
4	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. (As per Civil SR KSRB 1-2, P-7)b. In hard Soil	Rmtr	200	50.00	10000.00
5	OPEN CONDUIT SYSTEM: Supplying heavy gauge PVC conduit pipe…. dia confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screwsc) 32 mm dia 2.5mm thick	Per Mtr	25	62.00	1550.00
	Total-2				**80650.00**
	Grand Total				**1111153.65**

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele)2010-11 and Bescom S.R. Rates.

Jr. Engineer (Elecl) /Asst Eng

Asst. Executive Engineer (Elecl)
Byt Sub Div, Yelahanka Zone

EXECUTIVE ENGINEER (ELECL)
Yelahanaka Zone, BBMP

"Modified Estimate Approved"

Chief Engineer
Yelahanka Zone
BBMP,Bangalore-92